

Higher n-Paraffins of Bitkovsk and Dolinsk
Petroleum

77928

SOV/65-60-3-1/19

Key to Table: (A) Hydrocarbons; (B) Literature data; (C) Experimental data on Bitkovsk petroleum; (D) Experimental data on Dolinsk petroleum; (E) Refractive index; (F) mp, °C; (G) Molecular weight; (H) Aniline point, °C; (I) Amount of petroleum, %; (J) Note: The intermediate fractions are not given in the Table and were not considered in calculations. (1) n-Hexadecane, (2) n-Heptadecane, (3) n-Octadecane, (4) n-Nonadecane, (5) n-eicosane, (6) n-Heneicosane, (7) n-Docosane, (8) n-Tricosane, (9) n-Tetracosane, (10) n-Pentacosane, (11) n-Hexacosane, (12) n-Heptacosane, (13) n-Octocosane, (14) n-Nonacosane, (15) n-Triacontane, (16) n-Hentriacontane, (17) n-Dotriacontane, (18) n-Tritriacontane, (19) n-Tetratriacontane, (20) n-Pentatriacontane.

Card 5/5

YATSENKO, Ye.F.; CHERNOZHUKOV, N.I.

Aromatic hydrocarbons of the oil fractions from Dolina and Bytkov
petroleums. Khim.i tekhn.topl.i masel 5 no.8:1-6 Ag '60:
(MIRA 13:8)

1. Moskovskiy institut neftekhimicheskoy i gazovoy promyshlennosti
im.akad.Gubkina.

(Petroleum--Analysis)

(Hydrocarbons)

S/065/60/000/010/002/010
E030/E412

AUTHORS: Yatsenko, Ye.F. and Chernozhukov, N.I.

TITLE: Naphthenic Hydrocarbons in the Residue Fraction of
Belinský and Bitkovský Crudes

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, ⁵ No. 10.
pp.6-10

TEXT: The naphthenic hydrocarbons in the residues from Dolina and Bitkovský crudes have been investigated. In order to avoid cracking of the high-molecular weight components, non-thermal methods of separation were mainly used (chromatographic separation over silica gel, complex formation with thiocarbamide, and selective solution in acetone). The residue is 25.72% of Bitkovský crude, containing 41% weight of naphthenic hydrocarbons and 27.53% of Dolina crudes, consisting of 47% of naphthenic hydrocarbons. The average Dolina composition is $C_{21.1}H_{41.6}$ with the general formula $C_nH_{2n-0.6}$, and for Bitkovský it is $C_{24.0}H_{46.4}$ with the general formula $C_nH_{2n-1.6}$. The quantity
Card 1/2

S/065/60/000/010/002/010
E030/E412

Naphthenic Hydrocarbons in the Residue Fraction of Belinsky and Bitkovsky Crudes

of hydrocarbons associated with ring structures is 35 to 36%, consisting of about 25% with branched paraffin chains and 5% with straight chains; the number of rings per molecule lies between 0.5 and 1.7. More complete structural analysis employed four stage dehydrogenation, selective crystallization with carbamide, further chromatographic extraction over silica gel, and studies of density, refractive index, molecular weight, aniline point and infrared transmission. Highly cyclized (more than 6 rings) compounds were present only in the Bitkovsky residue, consisting of 0.77%, with an average of 6.24 rings. In both crudes, tricyclics formed about 0.42%. About 41% of the Bitkovsky fraction contained cycloparaffins, and for Dolina the figure was 46% (including about half in isoparaffins). Six-membered cycloparaffins comprised about 27% of Dolina and 32% of Bitkovsky crudes. There are 3 figures, 4 tables and 10 references: 7 Soviet and 3 non-Soviet.

ASSOCIATION: UkrNIGRI, MINKh and GP
Card 2/2

YATSENKO, Ye. F.

Cand Chem Sci - (diss) "Comparative study of hydrocarbons of the oil fraction of petroleum from the Dolinskiy and the Bitkovskiy deposits of the Ukrainian SSR." Moscow, 1961. 21 pp; (Ministry of Higher and Secondary Specialist Education USSR, Moscow Inst of Petrochemical and Gas Industry imeni I. M. Gubkin); 160 copies; price not given; (KL, 6-61 sup, 200)

YATSENKO, Ye.F.; BOYKO, G.Ye.; DONTSOVA, G.M.

Higher liquid hydrocarbons in Carpathian ozocerites. Izv.vys.
ucheb.zav.; neft' i gaz 5 no.2:71-75 '62. (MIRA 15:7)

1. L'vovskiy gosudarstvennyy universitet imeni I. Franko
i Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut.

(Carpathian Mountains--Ozocerite)
(Hydrocarbons)

YATSENKO, Ye.F.; DONTSOVA, G.M.

Composition and properties of Carpathian oils. Geol.neft i gaza
6 no.10:29-33 0 '62. (MIRA 15:12)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut.
(Carpathian Mountain region--Petroleum--Analysis)

YATSENKO, Ye.F.; DONTSOVA, G.M.

Physicochemical properties of petroleum in the water-oil
contact. Trudy UkrNIGRI no.7:250-256 '63.

(MIRA 19:1)

YATSENKO, Ye.F.; DONTSOVA, G.M.; GORBUNOVA, I.Ye.

Physicochemical properties of petroleums in the new
Carpathian fields. Trudy UkrNIGRI no.7:233-241 '63.
(MIRA 19:1)

BOYKO, G.Ye.; KLIMOVSKAYA, L.K.; RYL'TSEV, Ye.V.; TURKEVICH, V.V.; YATSENKO, Ye.F.

Infrared absorption spectra of the higher liquid hydrocarbons of
Carpathian ozocerites. Trudy UkrNIGRI no.5:378-381 '63. (MIRA 18:3)

YATSENKO, Ye.F.; DONTSOVA, G.M.

Determining the chemical composition of petroleum paraffin and
ozocerite. Trudy UkrNIGRI no.5:371-377 '63.

(MIRA 18:3)

1. 2215 465 EWT(m)/EPF(c)/T Pr-4 WE

ACCESSION NR: AR4049261

S/0081/64/000/016/E064/E064

SOURCE: Ref. zh. Khimiya, Abs. 16E115

AUTHOR: Yatsenko, Ye. F.; Dontsova, G. M.; Gorbunova, I. Ye. E

TITLE: Physical and chemical properties of crudes from new Carpathian deposits //

CITED SOURCE: Tr Ukr. p.-i. geologorazved. in-t, vy*p. 7, 1963, 233-241

INDEX TERMS: petroleum prospecting, Carpathian crude, Carpathian natura.
crude, paraffinic crude, tarry crude

ABSTRACT: The authors studied a number of recently discovered petroleum deposits located at depths of 10-15 m and 20-30 m. The specific gravity of the crudes ranged from 0.816 to 0.870. Crudes from the Staravy and Vuh-Blazhnev were light ($d_{4}^{20} = 0.81$ to 0.82), those from the Vuh-Blazhnev-2 and Vuh-Blazhnev-3 (Stratonskaya and Dolina

Card 1/3

L 22187-65

ACCESSION NR: AR4049261

... were medium (0.83 to 0.85), while crudes from the remaining

... content. Foreign elements (S, N and) did not exceed ...
... they ...
... use ...

Card 2/3

L 22187-65

ACCESSION NR: AR4049261

0 75-0.80) The gas is substantially lighter than reserves from the outer
of light hydrocarbons. The difference in

from the new deposits are basically low-sulfur, paraffinic and tarry, with a
significant content of light fractions. 7. Kotseruba

SUB CODE: FP

ENCL: 00

Card 3/3

YATSKHO, Ya.N.

Reproduction of the *Prorethone vole* (*Prorethone schaposhnikovii*
Satunin). Zool.zhur. 38 no.6:916-919 Ja '59. (MIRA 12:11)

1. Chair of Zoology, North-Ossetian Pedagogical Institute, Ordzhonikidze.
(Caucasus--Field mice)

YATSENKO, Ye. N., Cand Bio Sci -- (diss) "Biology and economic value of
Prometyev weeding and high mountainous areas of Northern Osetin and the
Kazbek rajon of Georgia," Moscow, 1960, 13 pp (Moscow City Pedagogical
Institute im V. P. Potemkin - Chair of Zoology) (KL, 35-60, 124)

YATSENKO-KHMELEVSKIY, A.A.

Del. at
Tbilisi State U.

or Yatsenko 1941, 42, [12] c. [24] Yatsenko Moskva, 1938.
ma. in. ma.
Zag. 1941, 192.
1007. Yatsenko Moskva, 1938. 1009. Yatsenko Moskva, 1938.
Acto Yatsenko Moskva, 1938. 1010. Yatsenko Moskva, 1938.
Herr. Yatsenko, v. 5, 1938.
Zag. 1938, 214.
1008. Yatsenko Moskva, 1938. 1009. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1010. Yatsenko Moskva, 1938. 1011. Yatsenko Moskva, 1938.
Zag. 1938, 211.
1012. Yatsenko Moskva, 1938. 1013. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1014. Yatsenko Moskva, 1938. 1015. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1016. Yatsenko Moskva, 1938. 1017. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1018. Yatsenko Moskva, 1938. 1019. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1020. Yatsenko Moskva, 1938. 1021. Yatsenko Moskva, 1938.
Zag. 1938, 211.

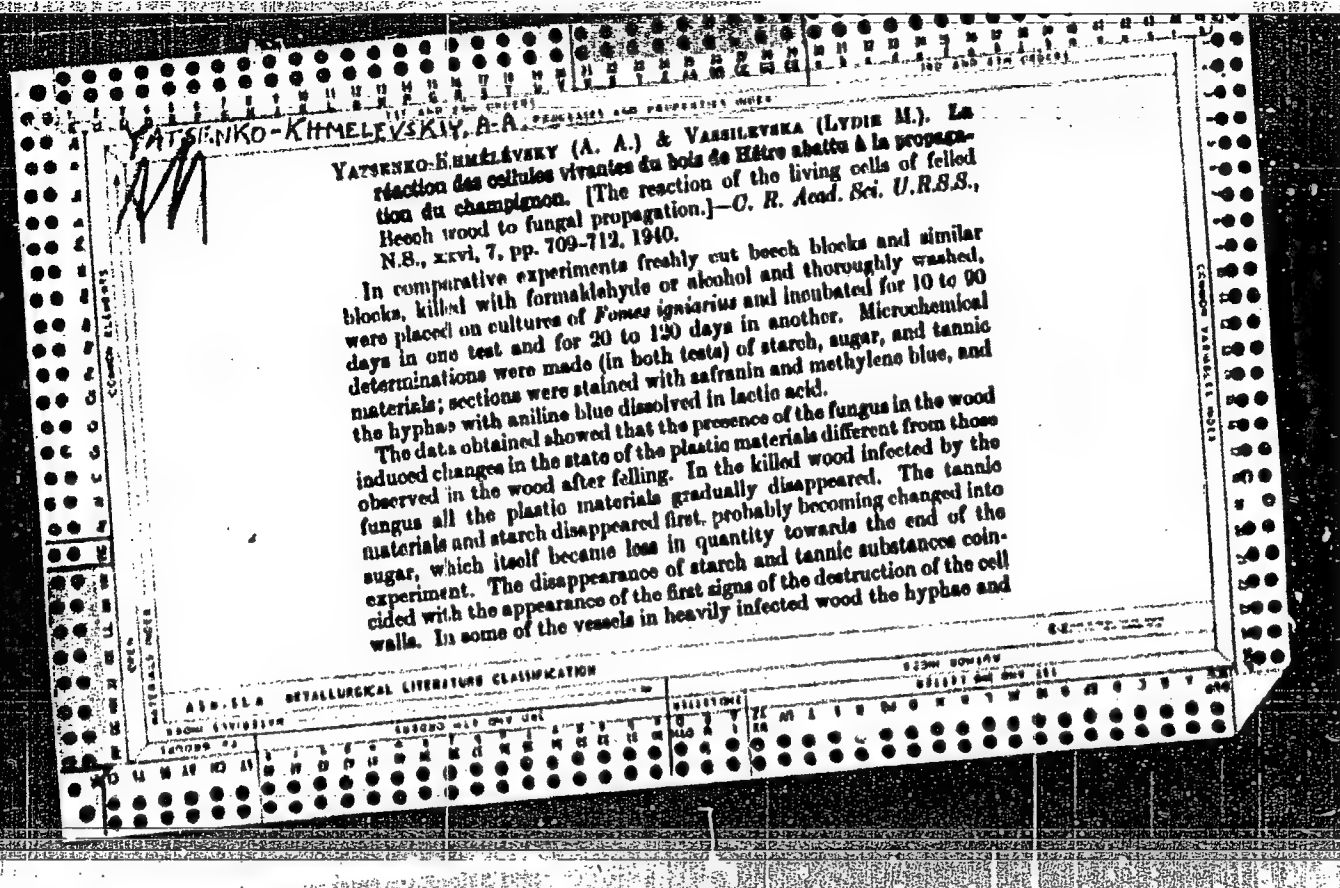
1022. Yatsenko Moskva, 1938. 1023. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1024. Yatsenko Moskva, 1938. 1025. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1026. Yatsenko Moskva, 1938. 1027. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1028. Yatsenko Moskva, 1938. 1029. Yatsenko Moskva, 1938.
Zag. 1938, 211.

1030. Yatsenko Moskva, 1938. 1031. Yatsenko Moskva, 1938.
Zag. 1938, 211.



their products were visible macroscopically as brownish spots and lines. The introduction of the fungus into the untreated living wood in ten days changed all the plastic materials into a brownish liquid filling the whole cavity of the living cell and then accumulating in the cavities of the fibres and vessels. The infiltration of this liquid (provisionally referred to as 'mycoinfiltrate') into the walls imparted the brown colour to the living infected wood. The formation of the mycoinfiltrate

is considered to have resulted from the reaction of the living cells to the fungus. This substance was not observed in dead wood. Tyloses were formed only in infected wood and never in the sterile controls.

These results demonstrate that it is possible to distinguish infected wood from wood showing a traumatic reaction, and to determine, even in the absence of tyloses, from the state of the plastic substances whether infection has occurred in the living or dead wood.

YATSENKO-KHMELEVSKIY, A.A.

Report on the anatomical structure of the eastern beech *Fagus orientalis* Lipsky. Izv.AN Arm.SSR.Est.nauki no.6:53-68 '47.
(MLRA 9:8)

1. Botanicheskiy institut AN Armyanskoy SSR, Otdel evolyutsionnoy morfologii i paleobotaniki,
(Besch)

~~YATSENKO-KHMMLEVDIY, A.A.~~

Principles in the classification of wood. Trudy Bot. inst. AN Arm.
(MLRA 9:8)
SSR. 5:5-155 '48.

(Wood)

YATSENKO-KHODOLIVSKIY, A.A.

[The trees of the Caucasus] Drevesiny Kavkaza. Yerevan, Izd-vo
Akademii nauk Armianskoi SSR, 1954. (MIRA 9:3)
(Caucasus--Forests and forestry)

KAZARYAN, V.O.; ~~YATSENKO-KHMELEVSKIY~~, A.A., professor, redaktor; SAROYAN,
P., tekhnicheskii redaktor

[Physiological characteristics of the embryology of biennial
plants; application of embryological physiology to methods for
obtaining a second cabbage crop] Fiziologicheskie osobennosti
razvitiia dvuletnikh rastenii; opyt prilozheniia fiziologii
razvitiia k polucheniiu povtornogo urozhaiia kapusty. Brevan, Izd-
vo Akademii nauk Armianskoi SSR, 1954. 215 p. [Microfilm]
(Botany--Physiology) (MLRA 7:10)
(Cabbage)

YATSENKO-KHMELEVSKIY, A.A.; VIKHROVA, V.Ye.; OZYRYAN, M.S.; MOSKALEVA,
~~YATSENKO-KHMELEVSKIY, A.A.~~; YATSENKO-KHMELEVSKIY, A.L., otvetstvennyy redaktor; SUVOROVA, L.D.,
tekhnicheskiiy redaktor.

[Principles and methods of investigating the structure of wood]
Osnovy i metody anatomicheskogo issledovaniia drevesiny. Moskva,
Izd-vo Akademii nauk SSSR, 1954. 337 p. [Microfilm] (MIRA 8:2)
(Wood)

~~YATSENKO-KHMELEVSKIY~~

"Dilizhan hornbeam-filbert" and the problem of "generation of species." Bot.zhur. 39 no.6:882-889 N-D '54. (MJRA 8:2)

1. Institut botaniki Akademii nauk ArmSSR, Yerevan.
(Dilizhan--Filbert) (Dilizhan--Hornbeam)

YATSENKO-KHMELEVSKIY, A.A.; KHURSHUDIAN, P.A.

"Structure and physical and mechanical properties of the wood of oak." V.E.Vikhrov. Reviewed by A.A.Iatsenko-Khmelevskii, P.A.Khurshudian. Bot.zhur. 39 no.6:918-919 N-D '54. (MLRA 8:2)
(Vikhrov, V.B.) (Oak)

YATSENKO-KHMELEVSKIY, A.A.

YATSENKO-KHMELEVSKIY, A.A.

Criticism of M.G. Popov's views on the origin of the Angiospermae.
Bot. zhur. 40 no. 4: 604-606 J1-Ag'55. (MLRA 8:11)

1. Tbilisskiy Gosudarstvennyy universitet
(Angiosperms) (Popov, M.G.)

Yatsenko-Khmelevskiy, A.A.
STEBBINS, Dzh.Led'yard [Stebbins, G.L.]; YATSENKO-KHMELEVSKIY, A.A. [translator].

On the hybrid origin of angiosperms. Bot.zhur. 42 no.10:1503-1506
0 '57. (MIRA 10:10)

1. Kaliforniyskiy universitet, Davis, SShA.
(Angiosperms) (Phylogeny (Botany))

YATSENKO-KHMELEVSKIY, A.A.

Phylogeny of angiosperms based on the study of the internal
morphology of their vegetative organs [with summary in English].
Bot.zhur. 43 no.3:365-380 Mr '58. (MIRA 11:5)
(Angiosperms) (Phylogeny (Botany))

YATSENKO-KHMELEVSKIY, A.A.; BUDKEVICH, Ye.V.

Brief description of the structure of wood of *Cathaya argyrophylla*
Chun et Kuang [with summary in English]. Bot. zhur. 43 no.4:477-480
Ap '58. (MIRA 11:6)

(China--Pine) (Wood--Anatomy)

YATSENKO-KHMELEVSKIY, Andrey Alekseyevich, prof.; KUZNETSOV, P.A., red.;
GOROKHOVA, S.S., tekhn. red.

[Brief course in plant anatomy] Kratkii kurs anatomii rastenii.
Moskva, Gos. izd-vo "Vysshiaia shkola," 1961. 282 p.

(MIRA 14:7)

(Botany--Anatomy)

[illegible]

ARZUMANYAN, G.A.; KHURSHUDYAN, P.A.; YATSENKO-KHMELEVSKIY, A.A.

Physicomechanical properties of pine wood from the excavations of
Karmir-Blur (7th century B.C.). Dokl. AN Arm. SSR 33 no.4:173-179
'61. (MIRA 15:1)

1. Institut stroitel'nykh materialov i sooruzheniy Gosstroya
Armyanskoy SSR i Botanicheskiy institut AN Armyanskoy SSR. Predstav-
leno chlenom-korrespondentom AN Armyanskoy SSR M.Z.Simonovym.
(Erivan--Pine, Fossil)

ORLOV, Yu.A., glav. red.; TAKHTADZHYAN, A.L., otv. red.;
VAKHRAMEYEV, V.A., red.; RADCHENKO, G.P., red.; SHVEDOV,
N.A., red.; VASILEVSKAYA, N.D., red.; TURUTANOVA-KETOVA,
A.I., red.; MURAV'YEVA, O.A., red.; POKROVSKAYA, I.M., red.;
YATSENKO-KHMELEVSKIY, A.A., red.; GOROKHOVA, T.A., red. izd-
va; GUROVA, O.A., tekhn. red.

[Fundamentals of paleontology; manual for paleontologists
and geologists of the U.S.S.R. in 15 volumes] Osnovy paleon-
tologii; spravochnik dlia paleontologov i geologov SSSR v
piatnadtsati tomakh. Glav. red. IU.A.Orlov. Moskva, Izd-vo
AN SSSR. Vol.15.[Gymnosperms and angiosperms] Golosemennye ,
pokrytosemennye. 1963. 742 p. (MIRA 16:11)
(Gymnosperms, Fossil) (Angiosperms, Fossil)

YATSENKO-KHMELEVSKIY, A.A.; CHAVCHAVADZE, Ye.S.

Contribution to the methods of the description of conifer wood.
Bot. zhur. 48 no.12:1799-1803 D '63. (MIRA 17:4)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya imeni
Kirova i Botanicheskiy institut imeni Komarova AN SSSR, Leningrad.

YATSENKO-KHMELEVSKIY, A.A.; SHILKINA, I.A.

New finds and a review of the genus *Sahnioxylon*. Paleont. zhur.
no.3:100-110 '64. (MIRA 18:2)

1. Leningradskaya lesotekhnicheskaya akademiya imeni S.M. Kirova
i Botanicheskiy institut imeni V.L. Komarova AN SSSR.

VAKIN, Aleksandr Timofeyevich, prof.; YATSENKO-KHMELEVSKIY, A.A.,
red.

[Storage of round lumber] Khranenie kruglogo lesa. Moskva,
Izd-vo "Lesnaia promyshlennost'," 1964. 427 p.
(MIRA 17:5)

BORISOVA, N.A.; YATSENKO-KHMELEVSKIY, A.A., prof.

Distribution and resources of medicinal plants in Priczerf District,
Leningrad Province. Trudy Len. khim.-farm. inst. no.17:11-23 '23 '64.
(MIRA 18:1)

MANOYLOV, S.Ye.; NIKOGOSYAN, I. Kh.; YATSENKO-KHMELEVSKIY, A.A.

Effect of ionizing radiation on mitoses in onion rootlets
following irradiation of various parts of the bulb.
TSitologiya 7 no.5:660-663 3-0 '65. (MIRA 18:12)

1. Kafedra farmakologii i biokhimii Leningradskogo khimiko-farma-
tsevticheskogo instituta. Submitted Aug. 1, 1960.

YAKOVLEV, G.P.; YATSENKO-KHMELEVSKIY, A.A.

Basic trees of the Dufoue region (Republic of Guinea) and the
characteristics of their wood. Rast. res. 1 no.2:206-218 '65.
(MIRA 18:11)

1. Leningradskaya ordena Lenina lesotekhnicheskaya akademiya
imani Kirova i Leningradskiy khimiko-farmatsevticheskiy institut.

GUSEV, Valentin Ivanovich, prof., lesnoy entomolog; RIMSKIY-KORSAKOV, Mikhail Nikolayevich, prof., lesnoy entomolog [1873-1951]; YATSENTKOVSKIY, Aleksey Vladimirovich; SHUPEROVICH, Vladimir Yakovlevich, lesnoy entomolog; POLUBOYARINOV, Ivan Ivanovich, lesnoy entomolog; IL'INSKIY, A.I., dots., retsenzent; POLOZHENTSEV, P.A., prof., retsenzent; KHRAMTSOV, N.N., red.; ARNOL'DOVA, K.S., red. izd-va; BACHURINA, A.M., tekhn. red.

[Forest entomology] Lesnaia entomologiya. Izd. 4., perer. pod obshchim rukovodstvom i red. V.I. Guseva. Moskva, Goslesbumizdat, 1961. 486 p. (MIRA 14:7)

1. Zaveduyushchiy kafedroy entomologii Ukrainskoy akademii sel'skokhozyaystvennykh nauk (for Gusev)
(Forest insects)

1ST AND 2ND COLUMNS																										3RD AND 4TH COLUMNS																									
YATSENGOVSKY, Y. V.													PROCESSING AND REPRODUCTION																																						
<p>sterile breeding of insects. R. V. YATSENGOVSKY, <i>Arch. Biol. Sci.</i> (U. S. S. R.) 31, 412-10(1931).—The effective sterilization of the external membrane of living eggs of <i>Locusta migratoria</i> L. was accomplished by the use of fuchsin, which did not coagulate nor penetrate the egg membrane and did not affect harmfully the development and hatching of the larvae.</p> <p>W. A. PARLEWING</p>																																																			
<p>ASB-SLA METEOROLOGICAL LITERATURE CLASSIFICATION</p>																																																			

YATSENKOVSKIY, G. L.

PHASE I BOOK EXPLOITATION

SOV/1945

3(7)

2. Tsimlyanskaya gidrometeorologicheskaya observatoriya

Sbornik rabot...Vyp. 1. (Collected Papers of the Tsimlyansk
Hydrometeorological Observatory Nr. 1) Leningrad, Gidrometeoizdat,
1958. 159 p. 460 copies printed.

Additional sponsoring agency: USSR. Glavnoye upravleniye
gidrometeorologicheskoy sluzhby.

Ed. (Title page): P.P. Kokoulin; Ed. (Inside book): Z.I. Mironenko;
Tech. Ed.: M.Ya. Flaum.

PURPOSE: This publication is intended for all specialists concerned
with the study and exploitation of water reservoirs and large lakes.

COVERAGE: This collection of articles is concerned with a study of
the following factors as they concern the Tsemlyanskoye Water
Reservoir: wind produced agitation in the lake, the formation of

Card 1/3

Hydrometeorological Observatory (Cont.)

SOV/1945

shorelines, changes in the meteorological conditions induced by the flow of air currents onto the reservoir surface, surface evaporation, and the gaseous regime of the lake. The studies are based on data obtained from observations. This information is shown in tables and graphs. Each article is accompanied by diagrams, tables, and bibliographic references.

TABLE OF CONTENTS:

Foreword	3
Kokoulin, P.P. Tsimlyanskoye Reservoir	5
Kokoulin, P.P., and L.V. Kokoulina. Data Obtained in Carrying Out Observations on the Formation of the Tsimlyanskoye Reservoir Shoreline	13
Kokoulin, P.P., and Ye.F. Semenov. Methods and Results Obtained in Observing Wave Patterns on the Tsimlyanskoye Reservoir During the Years 1953-1955	65

Card 2/3

Hydrometeorological Observatory (Cont.)

SOV/1945

- Shpak, I.S. Variations in Meteorological Conditions Caused
by the Inflow of Air Currents on the Reservoir 105
- Kokoulin, P.P., and G.L. Yatsentkovskiy. The Problem of
Estimating Evaporation From the Surfaces of Reservoirs 135
- Rogozhkin, V.I. Basic Features of the Regime of Dissolved
Gases in the Tsimlyanskoye Reservoir (1952-1956) 149

AVAILABLE: Library of Congress

Card 3/3

MM/jab
6/19/59

YATSENTYUK, M.N. (Kiyev, 1, Geroyev revolyutsii, d.4, 2-y korpus, kv.28)

Evaluation of the effectiveness of using the plasma substitute
EK-8 for the purpose of parenteral protein nutrition. Vest.khir.
no.3:73-74 '62. (MIRA 15:3)

1. Iz kafedry obshchey khirurgii (zav. - prof. M.I. Kolomiychenko)
Kiyevskogo meditsinskogo instituta Kiyevskogo instituta perelivaniya
krovi i neotlozhnoy khirurgii (dir. - prof. N.I. Fedorov).
(BLOOD PLASMA SUBSTITUTES) (PROTEIN METABOLISM)

YATSENYUK, M.N.

Use of the BK-8 protein blood substitute in cancer patients. Trudy Kiev.
nauch.-issl. inst. perel. krovi i neotlozh. khir. 3:107-109 '61.

(MIRA 17:10)

1. Kafedra obshchey khirurgii Kiyevskogo meditsinskogo instituta imeni
A.A.Bogomol'tsa i Kiyevskiy institut perelivaniya krovi.

YATSENYA, A.Z.

Detection of tumor cells in the blood during surgical intervention
for breast cancer. Klin. khir. no.3:26-30 '65. (MIRA 18:8)

1. Kafedra onkologii (zav. - prof. I.P.Dedkov) Kiyevskogo instituta
usovershenstvovaniya vrachey.

YATSENYA, N.I.

Varicose enlargements of the esophageal veins. Vrach.delo no.8:821-823 Ag '57. (MLBA 10:8)

1. Rentgeno-radiologicheskiiy otdel (rukovoditel' - prof. A.Ye. Rubasheva) Kiyevskogo nauchno-issledovatel'skogo rentgeno-radiologicheskogo i onkologicheskogo instituta
(ESOPHAGUS--BLOOD SUPPLY) (VARIX)

YATSENYA, H. I.

X-ray diagnosis of chronic arteriomesenteric obstruction of the
duodenum. Vrach.delo no.5:527-529 My'58 (MIRA 11:7)

1. Kiyevskiy rentgeno-radiologicheskii i onkologicheskii institut.
(INTESTINES--OBSTRUCTION)
(DUODENUM--RADIOGRAPHY)

YATSENYA, N.I.

Secondary chondrosarcomas. Vrach.delo no.12:1319-1321 D '59.
(MIRA 13:5)
1. Kiyevskiy nauchno-issledovatel'skiy rentgeno-radiologicheskiy
i onkologicheskiy institut.
(BONES--TUMORS)

MONCHENKO, V.I.; YATSENYA, O.Z.

Freshwater medusa, Priroda 55 no.1:104 Ja '66.

1. Institut zoologii AN UkrSSR, Kiev.

(MIRA 19:1)

YATSENTYUK, M.N.

Influence of the protein blood substitute BZ-8 on the secretory function of the stomach in gastrostomy patients. Vrach, delo no. 7:136-137 J1 '60. (MIRA 13:7)

1. Kafedra obshchey khirurgii (zaveduyushchiy - zasluzhennyy deyatel' nauki, prof. M.I. Kolomiychenko) Kiyevskogo meditsinskogo instituta i Kiyevskiy institut perelivaniya krovi i neotlozhnoy khirurgii.

(BLOOD PLASMA SUBSTITUTES) (STOMACH--SECRECTIONS)

YATSENTYUK, M.N. (Kiyev, ul.Geroyev Revolyutsii, d.4, 2-y korpus, kv.28)

Preliminary data on clinical tests of the BK-8 protein blood substitute. Nov. khir. arkh. no.2:64-68 Mr-Ap '60. (MIRA 14:11)

1. Kafedra obshchey khirurgii (zav. - prof. M.I.Kolomiychenko)
Kiyevskogo meditsinskogo instituta i Kiyevskiy institut perelivaniya
krovi i neotlozhnoy khirurgii (direktor - prof. I.I.Fedorov).
(BLOOD PLASMA SUBSTITUTES)

S/127/60/000/007/011/011
B012/B052

AUTHOR: Yatsenyuk, L. A., Senior Engineer Dispatcher (Zhitomir)

TITLE: Mechanized production of fuses

PERIODICAL: Gornyy zhurnal, no. 7, 1960, 73-74

TEXT: This paper describes the production of fuses by the semiautomatic machine of the type MIZT-1K (MIZT-1K) suggested by the mechanic S. B. Karant. It 1) allows a mechanized production of fuses, 2) guarantees safety in the insertion of the fuse cord into the mouth of the detonator, 3) guarantees the connection between detonator and fuse cord, and 4) eliminates any damage to the cores of fuse cords. The device weighs 32.5 kg, its dimensions are 25x42x30 cm. Power consumption is 0.2 kw/hr. 10-14 fuses per minute are produced by mechanical drive, and 6-8 fuses by hand drive. The production of fuses with a detonator consisting of cardboard cases is as follows: bunches of fuse cord containing 50-100 pieces each are put on the right-hand side of the worktable of the semiautomatic machine, and the box with the detonators is put on the left-hand side of it. The following operations are made at the same time: laying the

Card 1/2

Mechanized production of fuses

S/127/60/000/C07/011/011
B012/B052

detonator into the groove of the worktable of the machine, its insertion, fixing, and the automatic insertion of the fuse cord into the mouth piece of the detonator. Joining in a protective bomb only takes fractions of a second. The holder pierces the secondary and primary coverings under 30 to 35° to the fuse-cord axis without damaging the interior. The angle of rotation of the joining head can be adjusted for the fuse cord axis. The semiautomatic machine contains a device which prevents the stitching of a detonator whose mouth piece contains no fuse cord. A prototype was tested in production section No. 4 of the Zapadukrvzryvprom in 1959. No misfires were found on fuses made with this device. Should the metal cases of detonators be of metal, the joining head is to be replaced by another one equipped with pressure screws. Series production of this device is recommended. There is 1 figure.

ASSOCIATION: Zapadukrvzryvprom

Card 2/2

YATSEVICH, A., predsedatel'.

Success of young model airplane builders. Kryl.rod. 4 no.11:13 H '53.
(MLRA 6:11)

1. Berezinskiy rayonnyy orgkomitet Vsesoyuznogo dobrovol'nogo obshchestva
sodeystviya armii, aviatsii i flotu Minskoy oblasti, Belorusskoy SSR.
(Airplanes--Models)

YAKKER, N.I., arkhitektor serii 1-528KP; YATSEVICH, I.N.; VINNIKOV,
M.S., brigadir kompleksnoy brigady kamenshchikov; GONCHAROV,
F.I., master UMR-10

Let's improve the quality of designing and building. Biul.
tekh.inform. po stroi. 5 no.11:28-29 N '59.
(MIRA 13:4)

1. Glavnyy inzhener UMR-10 tresta No.20 (for Yatskevich)
(Leningrad--Construction industry)

YATSEVICH, K., insh.

Mechanized brick factory. Sel', stroi. 12 no.11:29 N '57.

(MIRA 10:11)

1. Glavnoye upravleniye po stroitel'stvu v kolkhozakh pri Sovets Mini-
strov BSSR.

(White Russia--Brick industry)

BELYAYEV, V.F.; YATSEVICH, N.M.; SOKOLOV, N.A.

Synthesis of chalcones on the base of β - chlorovinyl ketones. Part 2.
Zhur.ob.khim. 32 no.6:2022-2025 Je '62. (MIRA 15:6)

1. Belorusskiy gosudarstvennyy universitet im. V.I.Lenina.
(Chalcone)

MURASHOV, K.; YATSEVICH, V.; SOLODOVA, A.

Developing the planned efficiency at the Moscow Milling Combine No. 4.
Muk.-elev. prom. 28 no.8:13-15 Ag '62. (MIRA 17:2)

1. Moskovskiy mel'nichnyy kombinat No.4.

YATSEVICH, V., inzhener; KUDRYAVTSEV, Ye., inzhener.

Introduction of beaters for cleaning husks. Muk.-elev.prom.
23 no.3:16-18 Mr. '57. (MLRA 10:5)

1. Moskovskiy mel'nichnyy kombinat No. 3.
(Grain milling)

YATSEVICH, V., inzh.

Introducing new machinery at the Moscow Milling Combine No.3. Muk.
elev. prom. 23 no.12:15-17 D '57. (MIRA 11:2)

1. Moskovskiy mel'nichnyy kombinat No.3.
(Moscow--Flour mills--Equipment and supplies)

YATSEVICH, V.A., inzh.; GOVOROV, N.A., red.; VOLKOV, P.N., red.

[Experience in the mechanization of the handling of ready production in Moscow Milling Combines No.3 and No.4] Opyt mekhanizatsii rabot s gotovoi produktsiei na moskovskikh mel'kombinatakh no.3 i 4. Moskva, TSentr. pravlenie nauchno-tekhn. ob-va mukomol'noi i krupianoi promyshl. i elevator-nogo khoz., 1964. 33 p. (MIRA 18:5)

YATSEWICH, V. B. Eng.

Electric Networks

Placing, and necessity of insulating the zero conductor of a low voltage, overhead network. Rab. energ. 3 No. 2, 1953.

9. Monthly List of Russian Accessions, Library of Congress, June 1953, Unclassified.

YATSEVICH, V.B., inzhener.

Increasing the lightning resistance of overhead electric transmission lines
on wooden supports. Elek.sta. 24 no.9:58 S '53. (MLRA 6:8)
(Electric lines--Overhead)

YATSEVICH, V. B

AID P - 1935

Subject : USSR/Electricity

Card 1/1 Pub. 29 - 15/31

Author : Yatsevich, V. B., Eng.

Title : ~~SELECTING THE PLACE OF CONNECTION OF CONDUCTORS OF OVERHEAD LINES~~
Selecting the place of connection of conductors of overhead lines

Periodical : Energetik, 3, 21, Mr 1955

Abstract : This concerns in particular rural electrical installations where it might not be possible to obtain special trucks to inspect or repair wire connections. The author recommends placing connections at or near the insulators.

Institution: None

Submitted : No date

YATSEVICH, V.B.

AID P - 2540

Subject : USSR/Electricity

Card 1/1 Pub. 26 - 24/32

Author : Yatsevich, V. B., Eng.

Title : ~~Checking high-voltage testers~~
Checking high-voltage testers

Periodical : Elek sta, 6, 53, Je 1955

Abstract : The author recommends the use of 1,000 or 2,500 v
meggers for testing high-voltage testers.

Institution : None

Submitted : No date

Yatsevich, V.B.

Subject : USSR/Electricity AID P - 2926
Card 1/1 Pub. 26 - 23/32
Author : Yatsevich, V. B., Eng.
Title : Simultaneous testing of several types of transformer
oil with one oil-gage
Periodical : Elek. sta., 7, 56, J1 1955
Abstract : Testing of transformer oil for dielectric strength
in an oil-gage made of china and equipped with
electrodes is described.
Institution : None
Submitted : No date

YATSEVICH, V.B., inzhener.

Using metal structures and grounding mains as neutral wires.
Prom.energ. 11 no.11:19-23 N '56. (MLRA 9:12)

1. Trest Elektromontazh-51.
(Electric wiring)

YATSEVICH, V.B. (g. Khar'kov); NAYFEL'D, M.R.

Testing the contacts of grounding systems. *Energetik* 5 no.4:39 Ap '57.
(Electric circuits) (MLRA 10:6)

AUTHOR: Yatsevich, V.B. Engineer

91-58-6-3/39

TITLE: Errors in Methods of Testing Electricians' Safety Belts
(Oshibki v metodike ispytaniya monterskikh poyasov)

PERIODICAL: Energetik, 1958, Nr 6, pp 5-6, (USSR)

ABSTRACT: It is necessary to adhere strictly to the requirements of GOST 5718-51 "Safety Belt for Work on Power Lines". Some organizations, however, use test methods described in pamphlets and books dealing with labor safety which contain considerable deviations from the aforementioned GOST. The author demands that the organization using safety belts and manufacturers of these belts adhere strictly to the requirements of the GOST. Furthermore, the author demands a revision of the GOST and suggests that an additional requirement, according to a directive of the Glavelektromontazh organization, be included. An editor's note at the end of the article approves the author's suggestion for a revision of the GOST.

AVAILABLE: Library of Congress

Card 1/1

1. Safety harnesses-Test methods 2. Safety harnesses-Standards

KON', A.G., tekhnik; YATSEVICH, V.B., inzh.

Flow of electric current to conducting floors of apartment
houses. Energetik 7 no.3:20 Mr '59. (MIRA 12:4)
(Electric wiring)

YATSEVICH, V. Ya., inzhener

Mechanization and automatization of loading and unloading in a
milling combine. Mekh.trud.rab. 9 no.5:18-20 My '55.
(Loading and unloading) (MLRA 8:7)

DANDERS, Ya.; YATSEVICHUS, I. [Jacevicius, I.]; GOL'DENBERG, A.; KHARIN, B.,
 inzh. (Leningrad); MOVA, N., inzh.; VINNIKOV, F. (Gomel');
 MAMYKIN, I. (Gomel'); BENDERSKIY, A., starshiy inzh. (pos. Igra,
 Udmurtskoy ASSR); CHERTETSOV, V.; OSIPOV, I.; SIROTIHIN, M.I.

Exchange of news and experience. Izobr.i rats. no.4:25-26 Ap '62.
 (MIRA 15:4)

1. Sekretar' Respublikanskogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Riga (for Danders).
 2. Glavnyy inzh. mezhdugorodnoy telefonnoy stantsii, g. Vil'nyus (for Yatssevichus).
 3. Predsedatel' oblastnogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov g. Ufa (for Gol'denberg).
 4. Krayevoy sovet Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov, g. Krasnodar (for Mova).
 5. Igrinskiy lespromkhoz kombinata "Udmurtles", (for Benderskiy).
 6. Predsedatel' Krasnoyarskogo krayevogo soveta Vsesoyuznogo obshchestva izobretateley i ratsionalizatorov (for Sirotin).
- (Technological innovations)

For the Institute of Mathematics, Academy of Sciences of the USSR

N. F. Ermolenko, A. R. Ilazova, and M. I. Vatsenskaya

YERMOLENKO, N.F.; YATSEVSKAYA, M.I.

Adsorption on charcoal of a mixture of n-toluidine and organic acids from aqueous solutions. Dokl. AN BSSR 4 no. 11:458-461 N '60. (MIRA 13:12)

1. Institut obshchey i neorganicheskoy khimii AN BSSR.
(Toluidine) (Acids, Organic) (Adsorption)

YERMOLENKO, N. F. [Iarmolenka, M. F.]; YATSEVSKAYA, M. I.
[Iatseuskaia, M. I.]

Study of the adsorption on coal from aqueous solutions of
mixtures of surface-active substances. Vestsi AN BSSR. Ser.
fiz.-tekh. nav. no.1:59-64 '63. (MIRA 16:4)

(Surface-active agents)
(Adsorption)

YATSEV V I

Yatsev, V. I. On a class of exact solutions of the equations

of motion of a fluid. Tr. Semin. Prikl. Matem. 1964, 12, 1, 1-10.
English transl. in SIAM J. Appl. Math. 1964, 22, 1, 1-10.
The solutions are exact solutions of the Navier-

Stokes equations.
relations:
$$u = \gamma^2 - 1 + a + \beta \gamma + \frac{1}{2}(a + \beta)^2 - \frac{1}{2}(\gamma^2 - 1)^2$$
$$v = \gamma^2 - 1 + a + \beta \gamma + \frac{1}{2}(a + \beta)^2 - \frac{1}{2}(\gamma^2 - 1)^2$$

The solutions for the case $a^2 = b = c$ are discussed in some detail.
J. V. Wehausen (Providence, R. I.).

Source: Mathematical Reviews,

Vol 12 No. 7

STM
R

YATSEYEV, V. I.

YATSEYEV, V. I.: "On a single class of solutions of complete differential equations for the movement of a viscous liquid." Tomsk State University V. V. Kuybyshev. Tomsk, 1956. (Dissertation for the Degree of Candidate in Physicomathematical Sciences)

Knizhnaya letopis', No 39, 1956. Moscow.

YATSIK, L.N.

Case in the maternity ward of a hospital. Stomatologiya 42
no.4:92 JL-Ag:63 (MIRA 17:4)

1. Iz Zheleznodorozhnoy bol'nitsy stantsii Isil'-Kul' Omskoy
oblasti.

KORSUN', A.A.; YAKUSHEVA, N.B.; YATSIKOV, Ya.S.; FEDOROV, Y. .P.,
otv. red.

[Results of observations with zenith telescopes in 1960-
1963: Pulkovo, Gorkiy, Kitab, Poltava, Kazan, Irkutsk,
Blagoveshchensk] Rezul'taty nabliudenii na zenit-teleskopakh
v 1960-1963 gg.: [Pulkovo, Gor'kii, Kitab, Poltava, Kazan',
Irkutsk, Blagoveshchensk.] Moskva, 1964. 50 p.
(MIRA 18:5)

1. Akademiia nauk URSR, Kiev, Holovna astronomichna observa-
toriiia. 2. Chlen-korrespondent AN Ukr.SSR (for Fedorov).

YATSIMIRSKAYA-KHONTOVSKAYA, M. K.

c/1961

1964

DECEASED

MEDICINE (RICKETTSIA)

110

CA KRONTOVSKAYA, M. K.

Chemical composition of *Rickettsia*. V. I. Tsvanitskii, M. K. Krontovskaya, and N. V. Chiburkina. *Zhur. Mikrobiol., Epidemiol. Immunobiol.* 1946, No. 8/9, 35-8; *Nature* 58, 812(1946).—*Rickettsia* isolated from cultures in lungs of white mice were analyzed. Estn. with Me_2CO , alk., and H_2O gave 10.3% lipids, which, by Me_2CO estn., were sep'd into 15.8% phosphatides and 20.7% neutral fat. Carbohydrate content, calcd. as glucose, after 2 hrs. hydrolysis in 2 N HCl, was 4.1%. The residue from lipid estn. was used for protein detn. (31.7%) and estn. of nucleic acid by the alk. method in the cold (12.0%). The nucleic acid is apparently of thymonucleic type (Feulgen reaction), although it might contain some of the ribonucleic type. The ash content of the organisms was 3.0%. The data so obtained place these organisms chemically in a position intermediate between bacteria and viruses. 21 references. G. M. Kosolapoff

ASAC-31A METALLURGICAL LITERATURE CLASSIFICATION

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

Oct. 1947

~~M. K.~~ KRONTOVSKAYA, M. K.

USSR/Medicine - Rickettsia
Medicine - Typhus - Virus

"Studies of Structure and Multiplication Cycles of the Rickettsia Prowazeki," A. V. Ruzantsev,
M. K. Krantovskaya, Ye. P. Savitskaya, B. V. Zhav, 3 pp

"Dok Akad Nauk SSSR, Nova Ser" Vol LVIII, No 2

Report results of studies conducted on the Rickettsia prowazeki. Studies development
of this disease: 1) in the light muscles due to pernasal infection of latter, and 2) in the
intestines due to perineal infection. Submitted by Academician I. I. Shmal'gauzen, 20 March
1947.

PA 49T51

KRONTOVSKAYA, M.K.

22689. KRONTOVSKAYA, M.K. O patogeneze sypnogo tifa novosti meditsiny, vyp. 13, 1949,
S. 45-54

SO: LETOPIS' No. 20, 1949

KRONTOVSKAYA, M.K.

(Chief, Typhus Dept.

SHEVELEV, A.S.; GINDIN, A.P., (zaveduyushchiy: KRONTOVSKAYA, M.K., professor)
(zaveduyushchiy; TIMAKOV, V.D., professor, direktor, Institute)

Study of peritoneal rickettsiosis in connection with the effect of splenectomy and block upon the morphologic reaction of the organism. Zhur.mikrobiol.epid. i immun. no.9:12-16 S '53. (MLRA 6:11)

- Typhus Dept
1. Sypnotifoznyy otdel Instituta epidemiologii i mikrobiologii im. pochetnogo akademika N.F.Gamalei Akademii meditsinskikh nauk SSSR (for Krontovskaya).
 2. Patomorfologicheskaya laboratoriya Instituta epidemiologii i mikrobiologii im. pochetnogo akademika N.F.Gamalei Akademii meditsinskikh nauk SSSR (for Gindin).
 3. Institut epidemiologii i mikrobiologii im.pochetnogo akademika N.F.Gamalei Akademii meditsinskikh nauk SSSR (for Timakov).
- (Peritoneum--Diseases) (Rickettsia) (Spleen--Surgery)

YATSIMIRSKAYA, M. K., and TOGUNOVA, A. I.

"On High-Level Training in the Typhus Division and in the Division of Specific Prophylaxis and Therapy of Tuberculosis." [paper read at a meeting of the institute's Scientific Council held during the first half of 1954.] Proceedings of Inst. Epidem and Microbiol im. Gamaleya 1954-56.

Typhus Division, Kravtsovskaya, M. K., head, Inst. Epidem and Microbiol im. Gamaleya AMS USSR.

SO: Sum 1186, 11 Jan 57.

YATSIMIRSKAYA, M. K., BILIBIN, A. F., BOCHAROVA, T. V., SINAYKO, G. I., SAVITSKAYA, YE. P.
and SHIROV, I. I.

"Concerning the Question of the Possibility of a Prolonged Carrying of Prowazeki's Rickettsiosis." [paper read at an unidentified scientific conference held by the institute during the first half of 1955.]
Proceedings of Inst. Epidem and Microbiol im. Gamaleya 1954-56.

Typhus Division, Krontovskaya, M. K., head, Inst. Epidem and Microbiol.
im. Gamaleya AMS USSR.

SO: Sum 1186, 11 Jan 57.

YATSIMIRSKAYA-KHONTOVSKAYA, M.K.

GINDIN, A.P.; YATSIMIRSKAYA-KHONTOVSKAYA, M.K.; ZHIV, B.V.; SALAGOVA,
T.A.

Pathomorphology of local reactions to the inoculation of the
typhus vaccine following sedimentation. Zhur.mikrobio.epid.
(MLRA 8:10)
i immun. no.7:69-71 J1 '55.

1. Iz Instituta epidemiologii i mikrobiologii imeni N.F.
Gamalei AMN SSSR dir. prof. G.V.Vygodchikov.

(TYPHUS, immunology.

vaccine, local reactions)

(VACCINES AND VACCINATIONS.

typhus vaccine, local reactions)

YATSIMIRSKAYA-KRONTOVSKAYA, M.K.; BILIBIN, A.F.; BOCHAROVA, T.V.; SINAYKO,
G.A.; SAVITSKAYA, Ye.P.; SHATROV, I.I.

Possibility of prolonged carrying of Rickettsia prowazekii. Zhur.
mikrobiol.epid. immun. 27 no.7:33-39 Jy '56. (MLRA 9:9)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN
SSSR, Kliniki infektsionnykh bolezney i kafedry epidemiologii 2-go
Moskovskogo meditsinskogo instituta imeni Stalina.

(RICKETTSIA PROWAZEKII
prolonged carriage in animals & men)

YATSIMIRSKAYA-KRONTOVSKAYA, M.K.; BOCHAROVA, T.V.; SOSNOVSKAYA, F.M.

Possibility of prolonged carriage of *Rickettsia prowazekii*. Report
No.2: Effect of ionizing radiations on the excretion of *Rickettsia*
prowazekii from the organism of animals after experimental typhus.
Zhur.mikrobiol.,epid.i immun. 30 no.11:84-86 N '59. (MIRA 13:3)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.
(TYPHUS exper.)
(RADIATION EFFECTS exper.)

YATSIMIRSKAYA-KRONTOVSKAYA, M. K. [deceased]; SALAGOVA, T.A.

Study of the antigenic structure of *Rickettsia prowazekii* by means of the precipitation reaction in gel. Zhur. mikrobiol., epid. i immun. 32 no.8:137-141 Ag '61. (MIRA 15:7)

1. Iz Instituta epidemiologii i mikrobiologii imeni Gamalei AMN SSSR.

(RICKETTSIA)

YATSIMIRSKY, A.																									
CA																									
10																									
<p>Alkylation of aromatic hydrocarbons by dihalogen derivatives. I. Condensation of 1,3-dichlorobromopropane with benzene. I. Tsukervanik and K. Yatsimirskii. <i>J. Gen. Chem.</i> (U. S. S. R.) 10, 1075 (1940). When $\text{Cl}(\text{CH}_2)_3\text{Br}$ and C_6H_6 react in the presence of AlCl_3 at 6-12°, 40% $\text{Ph}(\text{CH}_2)_3\text{Br}$ (I) is formed. At 80-5°, 60% $\text{Ph}(\text{CH}_2)_3\text{Ph}$ is formed, with some PhPr as a by-product, but no I is obtained. H. M. Leicester</p>																									
Lab. Organic Chem., Central Asian State Univ.																									
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117 AND 120 ORDERS										120 AND 121 ORDERS									
PROCESS AND PROPERTIES INDEX																			
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<p>Acid-base reactions in acetic anhydride. I. Acid-base properties of acetic anhydride. M. Usanovich and K. Yalimurakli. <i>J. Gen. Chem. (U.S.S.R.)</i> 11, 931-6(1941); <i>C.A.</i> 36, 6444. Thymol blue, methyl orange, diphenyl yellow, methyl red, and neutral red give their acid colors in pure Ac_2O; tropaeolin OO gives its transition color, and methyl violet its alk. color. Thus Ac_2O has a pH between 1 and 3. Bromothymol blue, bromophenol blue, and bromocresol purple give colors differing from those found in H_2O. Solns. of AcCl, BaCl_2, and $\text{CCl}_3\text{CO}_2\text{H}$ in Ac_2O are more acid than Ac_2O, and solns. of NaOAc are much more alk. (pH 4.4-6.8). Pyridine is also a base in Ac_2O. III. Solvolysis of salts in acetic anhydride. <i>Ibid.</i> 950-62. Ac_2O behaves as if it splits into Ac and AcO^- ions. When salts are dissolved in Ac_2O, solvolysis occurs, anions uniting with Ac, and cations with AcO^-. Thus, all acetates in Ac_2O give solns. more alk. than Ac_2O itself. Sulfates and carbonates give weakly acid AcSO_3^- and AcCO_3^-, and chlorides give AcCl and AcNO_2. Solns. of nitrates in Ac_2O have oxidizing power. The order of decreasing basicity for anions is AcO^-, CO_3^{2-}, SO_4^{2-}, CNS^-, Cl^-, NO_2^-, Br^-, I^-, and the order of rising acidity for cations is K^+, Na^+, Ba^{2+}, Sr^{2+}, NH_4^+, Pb^{2+}, Li^+, Mn^{2+}, Ca^{2+}, Y^{3+}, Cd^{2+}, Cu^{2+}, Mg^{2+}, Ni^{2+}, Zn^{2+}, Al^{3+}, Be^{2+}. H. M. Leicester.</p>																			
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01

ACID-BASE INTERACTION IN ACETIC ANHYDRIDE. II. ACIDIMETRIC AND ALKALIMETRIC TITRATION IN ACETIC ANHYDRIDE. M. Usenovich and K. Yatsimirskii. *J. Gen. Chem.* (U. S. S. R.) 11, 957-8 (1941).—Acetylchloride, benzoylchloride and trichloroacetic acid can be titrated with NaOAc in acetic anhydride soln. with methyl orange or with dimethyl yellow as indicator. With (trop.) In (a) the color change takes place before the true end-point is reached. AcCl, BiCl and $\text{CCl}_3\text{CO}_2\text{H}$ behave as weak acids, NaOAc as a strong base when dissolved in Ac_2O . The reaction of $\text{CCl}_3\text{CO}_2\text{H}$ with NaOAc is instantaneous; in the case of the reaction of AcCl and BiCl with NaOAc, the indicator changes color as soon as the NaOAc is added and only slowly changes back as AcCl or BiCl acts to neutralize NaOAc. The rate of reaction $\text{CH}_3\text{COCl} + \text{CH}_3\text{COONa} \rightarrow (\text{CH}_3\text{CO})_2\text{O} + \text{NaCl}$ in Ac_2O soln. at 20° is given by the first-order const. $K = 0.001 \times 10^4$. The rate-determining step in dil. solns. is $\text{CH}_3\text{COCl} + (\text{CH}_3\text{CO})_2\text{O} \rightarrow (\text{CH}_3\text{CO})_2\text{O}^+ + \text{Cl}^-$ followed by $(\text{CH}_3\text{CO})_2\text{O}^+ + \text{CH}_3\text{COO}^- \rightarrow 2(\text{CH}_3\text{CO})_2\text{O}$. P. H. RATHMANN

450.554 METALLURGICAL LITERATURE CLASSIFICATION

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Proton affinity of some anions. K. B. Vatsimirskii. *Bull. acad. sci. U.R.S.S., Classe sci. chim.* 1947, 411-12 (in Russian).—The proton affinity is calcd. from $K = -\Delta H_{\text{HX}} + \Delta H_{\text{H}^+} + \Delta H_{\text{X}^-}$, the heat of formation of the gaseous hydride HX, of the gaseous proton H^+ , and of the gaseous anion X^- , resp.; the latter is derived from the lattice energy $u = -\Delta H_{\text{HX}} + \Delta H_{\text{H}^+} + \Delta H_{\text{X}^-}$, where the 1st two terms are the heat of formation of the salt MX and of the gaseous metal ion M^+ , resp. By using the equation of Kapustinskii (*J. Gen. Chem.* 13, 407(1943); *C.A.* 38, 5705⁹) with $r(\text{ClO}_4^-) = 2.36 \text{ \AA.}$, and with ΔH_{HX} of NaClO_4 , RbClO_4 , and $\text{Ba}(\text{ClO}_4)_2$ of Michowsky and Rosini (*Thermochemistry of the Chemical Substances* (C.A. 30, 6279⁹)) for ClO_4^- (g), $\Delta H_{\text{X}^-} = 91.5 \pm 1 \text{ kcal./mole}$; similarly, for HSO_4^- (g), with $r = 2.06 \text{ \AA.}$ and the ΔH_{HX} of KHSO_4 , NaHSO_4 , RbHSO_4 , and CaHSO_4 , $\Delta H_{\text{X}^-} = -246.2 \pm 1$. From the heats of formation and of vaporization of the acids, for HClO_4 and H_2SO_4 , $\Delta H_{\text{X}^-} = -10.4$ and $-178.7 \text{ kcal./mole}$, resp., and $K = 235$ and 290 kcal./mole for ClO_4^- and HSO_4^- , resp. Further values of K calcd., in the same way, are: 1-307, Br⁻ 315, NO₃⁻ 320, Cl⁻ 323, HS⁻ 343, HCOO⁻ 347, CN⁻ 348, P⁻ 368, OH⁻ 368, NH₂⁻ 419. Data for I⁻, Br⁻, Cl⁻, HS⁻, CN⁻, P⁻, and OH⁻ are in good to fair agreement with those of West (C.A. 29, 406⁹) and of Jitta (C.A. 31, 3805⁹), but the latter's value for NH₂⁻ is too low.

N. Thon

YATSIMIRSKIY, K. B.

1A 53T8

USSR/Chemistry - Heat of Formation
Chemistry - Salts

Sep/Oct 1947

"Thermochemical Radii of Ions and the Heat at Which
Salts Are Formed," K. B. Yatsimirskiy, Inst Genl and
Inorg Chem imeni N. S. Kurnakov, Acad Sci USSR,
42 pp

"Izv Akad Nauk SSSR, Otd Khim Nauk" No 5

Amplifies data on the so-called "thermochemical ion
radii," and obtains values for eleven anions. These
values in turn used to obtain revised values for
heat at which 110 salts are formed.

53T8

YATSIMIRSKIY, K, B.

PA 15T27

USSR/Chemistry - Hydration
Chemistry - Heat of hydration

Feb 1947

"The Heat of Hydration of Ions and Lattice Energy,"
K. B. Yatsimirskiy, 6 pp

"Zhur Obshch Khim" Vol XVII, No 2

Calculation of heat of hydration for 24 ions, and
values of lattice energy for 93 salts, values of dis-
sociation energy for 5 acids and heats of dissolu-
tion in water for 20 salts.

15T27

[illegible]